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SEQUENCE LISTING

GEN-100D1

<110> Bougueleret, Lydie

Chumakov, Ilya

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TECH CENTER 1600/2900

<120> Human Defensin Polypeptide Def-X, Genomic DNA and cDNA, Composition
Containing Them and Applications to Diagnosis and to Therapeutic Treatment

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<140> US 10/045,180

<141> 2001-10-18

<150> US 09/486,580

<151> 2000-02-25

<150> PCT/FR98/01864

<151> 1998-08-28

<150> FR 97/10823

<151> 1997-08-29

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<170> PatentIn version 3.1

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 Thr Leu Thr Leu Leu Ser Ala Phe Leu Leu Val Ala Leu Gln Ala Trp
 5 10 15

gca gag ccg ctc cag gca aga gct cat gag atg cca gcc cag aag cag 153
 Ala Glu Pro Leu Gln Ala Arg Ala His Glu Met Pro Ala Gln Lys Gln
 20 25 30

cct cca gca gat gac cag gat gtg gtc att tac ttt tca gga gat gac 201
 Pro Pro Ala Asp Asp Gln Asp Val Val Ile Tyr Phe Ser Gly Asp Asp
 35 40 45 50

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 Ser Cys Ser Leu Gln Val Pro Gly Ser Thr Lys Gly Leu Ile Cys His
 55 60 65

tgc aga gta cta tac tgc att ttt gga gaa cat ctt ggt ggg acc tgc 297
 Cys Arg Val Leu Tyr Cys Ile Phe Gly Glu His Leu Gly Gly Thr Cys
 70 75 80

ttc atc ctt ggt gaa cgc tac cca atc tgc tgc tac taa gcttgcagac 346
 Phe Ile Leu Gly Glu Arg Tyr Pro Ile Cys Cys Tyr
 85 90

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Lys	Gln	Pro	Pro	Ala	Asp	Asp	Gln	Asp	Val	Val	Ile	Tyr	Phe	Ser	Gly
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Asp	Asp	Ser	Cys	Ser	Leu	Gln	Val	Pro	Gly	Ser	Thr	Lys	Gly	Leu	Ile
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Cys	His	Cys	Arg	Val	Leu	Tyr	Cys	Ile	Phe	Gly	Glu	His	Leu	Gly	Gly
65					70					75				80	

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Cys Ser Leu Gln Val Pro Gly Ser Thr Lys Gly Leu
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attttc	ttat ctcga	aactg aatag	agaga caaaca	aatg taagt	agtct	tcttt	ctcca 3540	
aagact	tgat tcca	aggtat gtctat	aaaaa ttcg	ctaggg	ttaag	atatg	gagag	acaga 3600
ttgacc	agtt cttt	ctggat ctaa	caagt agat	attata	gggaa	atat	ttcatt	ctgc 3660
caacaa	agga aattt	ttaaaa actgg	agatg ggctt	aagag	tatgt	tcagg	tgtgt	gtctg 3720
atgggg	caaaa agcac	acaaa tcagag	caaaa agaga	atgag	tctcaa	atcc	tgtat	gagca 3780
gcattg	ctct gtgtat	ttat tcctat	tggac taagg	ttgtt	tgtg	ctaccg	gcact	aatgc 3840
agccag	catc accgg	tcagc cagcat	gtgc attct	ccaag	attcc	cttta	ccacc	caccg 3900
ctgac	cttgg tgctt	aattt ctcagt	cttc ctctg	tgttc	ccagg	ctcaa	caaggg	gcat 3960

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ggtctgctct tgcagattag tattctgccg gcgaacagaa cttcgtgttg ggaactgcct 4020
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<223> Def-4 (HNP-4) coding sequence

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                                     Met Arg
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att atc gcc ctc ctc gct gct att ctc ttg gta gcc ctc cag gtc cgg 105
Ile Ile Ala Leu Leu Ala Ala Ile Leu Leu Val Ala Leu Gln Val Arg
      5                      10                      15

gca ggc cca ctc cag gca aga ggt gat gag gct cca ggc cag gag cag 153
Ala Gly Pro Leu Gln Ala Arg Gly Asp Glu Ala Pro Gly Gln Glu Gln
      20                      25                      30

cgt ggg cca gaa gac cag gac ata tct att tcc ttt gca tgg gat aaa 201
Arg Gly Pro Glu Asp Gln Asp Ile Ser Ile Ser Phe Ala Trp Asp Lys
      35                      40                      45                      50

agc tct gct ctt cag gtt tca ggc tca aca agg ggc atg gtc tgc tct 249
Ser Ser Ala Leu Gln Val Ser Gly Ser Thr Arg Gly Met Val Cys Ser
      55                      60                      65

tgc aga tta gta ttc tgc cgg cga aca gaa ctt cgt gtt ggg aac tgc 297
Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val Gly Asn Cys
      70                      75                      80

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ctc att ggt ggt gtg agt ttc aca tac tgc tgc acg cgt gtc gat taa 345
Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg Val Asp
85 90 95

cgttctgctg tccaagagaa tgtcatgctg ggaacgccat catcggtggt gttagcttca 405
catgcttctg cagctgagct tgcagaatag agaaaaatga gtcataatt tgctttgaga 465
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<212> PRT

<213> Homo sapiens

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<222> (1)..(97)

<223> Def-4 preproprotein sequence

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<221> SIGNAL

<222> (1)..(19)

<223> Def-4 signal peptide

<220>

<221> PROPEP

<222> (20)..(63)

<223> Def-4 propeptide

<220>

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Met Arg Ile Ile Ala Leu Leu Ala Ala Ile Leu Leu Val Ala Leu Gln
1 5 10 15

Val Arg Ala Gly Pro Leu Gln Ala Arg Gly Asp Glu Ala Pro Gly Gln
20 25 30

Glu Gln Arg Gly Pro Glu Asp Gln Asp Ile Ser Ile Ser Phe Ala Trp
35 40 45

Asp Lys Ser Ser Ala Leu Gln Val Ser Gly Ser Thr Arg Gly Met Val
50 55 60

Cys Ser Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val Gly
65 70 75 80

Asn Cys Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg Val
85 90 95

Asp

<210> 10

<211> 94

<212> PRT

<213> Homo sapiens

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<222> (1)..(94)

<223> Def-5 preproprotein sequence

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<221> SIGNAL

<222> (1) .. (19)

<223> Def-5 signal peptide

<220>

<221> PROPEP

<222> (20) .. (63)

<223> Def-5 propeptide

<220>

<221> PEPTIDE

<222> (64) .. (94)

<223> Def-5 mature peptide

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Met Arg Thr Ile Ala Ile Leu Ala Ala Ile Leu Leu Val Ala Leu Gln
1 5 10 15

Ala Gln Ala Glu Ser Leu Gln Glu Arg Ala Asp Glu Ala Thr Thr Gln
20 25 30

Lys Gln Ser Gly Glu Asp Asn Gln Asp Leu Ala Ile Ser Phe Ala Gly
35 40 45

Asn Gly Leu Ser Ala Leu Arg Thr Ser Gly Ser Gln Ala Arg Ala Thr
50 55 60

Cys Tyr Cys Arg Thr Gly Arg Cys Ala Thr Arg Glu Ser Leu Ser Gly
65 70 75 80

Val Cys Glu Ile Ser Gly Arg Leu Tyr Arg Leu Cys Cys Arg
85 90

<210> 11

<211> 100

<212> PRT

<213> Homo sapiens

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<222> (1)..(100)

<223> Def-6 preproprotein sequence

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<221> SIGNAL

<222> (1)..(19)

<223> Def-6 signal peptide

<220>

<221> PROPEP

<222> (20)..(70)

<223> Def-6 propeptide

<220>

<221> PEPTIDE

<222> (71)..(100)

<223> Def-6 mature peptide

<400> 11

Met	Arg	Thr	Leu	Thr	Ile	Leu	Thr	Ala	Val	Leu	Leu	Val	Ala	Leu	Gln
1				5					10					15	

Ala	Lys	Ala	Glu	Pro	Leu	Gln	Ala	Glu	Asp	Asp	Pro	Leu	Gln	Ala	Lys
		20						25					30		

Ala	Tyr	Glu	Ala	Asp	Ala	Gln	Glu	Gln	Arg	Gly	Ala	Asn	Asp	Gln	Asp
		35						40				45			

Phe Ala Val Ser Phe Ala Glu Asp Ala Ser Ser Ser Leu Arg Ala Leu
50 55 60

Gly Ser Thr Arg Ala Phe Thr Cys His Cys Arg Arg Ser Cys Tyr Ser
65 70 75 80

Thr Glu Tyr Ser Tyr Gly Thr Cys Thr Val Met Gly Ile Asn His Arg
85 90 95

Phe Cys Cys Leu
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<213> Homo sapiens

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<221> MISC_FEATURE

<222> (1)..(94)

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<221> SIGNAL

<222> (1)..(19)

<223> Def-1 signal peptide

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<221> PROPEP

<222> (20)..(64)

<223> Def-1 propeptide

<220>

<221> PEPTIDE

<222> (65)..(94)

<223> Def-1 mature peptide

<400> 12

Met Arg Thr Leu Ala Ile Leu Ala Ala Ile Leu Leu Val Ala Leu Gln
1 5 10 15

Ala Gln Ala Glu Pro Leu Gln Ala Arg Ala Asp Glu Val Ala Ala Ala
20 25 30

Pro Glu Gln Ile Ala Ala Asp Ile Pro Glu Val Val Val Ser Leu Ala
35 40 45

Trp Asp Glu Ser Leu Ala Pro Lys His Pro Gly Ser Arg Lys Asn Met
50 55 60

Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
65 70 75 80

Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
85 90